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Application No. 10/671,607
Docket No. 741124-106In the Claims:

1. (Currently Amended) Device for measuring machine tools, comprising
a housing with at least one exit/entrance window which enable light beams to pass in and out of the housing,
a power supply,
a clamping cylinder or pin on said housing for securing the housing on a machine tool,
a light beam transmitter for producing a light beam,
a beam splitter in said housing, and
an optoelectronic target in said housing, said target having a two-dimensional read-out,
wherein said at one exit window comprises first and second exit/entrance windows, each of which is at a different side of said beam splitter from each other and said light beam transmitter, wherein the first and second exit/entrance windows are located at sides of the housing which are at right angles relative to each other.

2. (Cancelled).

3. (Currently Amended) Device as claimed in claim 1, ~~[[2,]]~~ wherein said windows are filter windows and are matched to the wavelength of light emitted by said light beam transmitter.

4. (Original) Device as claimed in claim 3, wherein said light beam transmitter is a laser.

5. (Currently Amended) A system for measuring machine tools, comprising:
a first transmitter/receiver having a housing that is mountable on a first machine tool;
a second transmitter/receiver, identical to said first transmitter/receiver, that is mountable on a second machine tool, and
a third transmitter/receiver, identical to said first transmitter/receiver, that is mountable on a third machine tool

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wherein each said transmitter/receiver is operable for transmitting a light beam to [[the]] at least one other of the transmitter/receivers and for receiving a light beam from [[the]] at least one other of the transmitter/receivers for performing alignment measurements of said machine tools based on the positional relationship of the impact points of the light beams in each transmitter/receiver.

6. (Currently Amended) A system for measuring machine tools according to claim 5, wherein each transmitter/receiver comprises:

a housing with two combined exit/entrance windows which enable light beams to pass in and out of the housing,

a light beam transmitter for producing a light beam,

a beam splitter in said housing, and

an optoelectronic target in said housing, said target having a two-dimensional read-out,

wherein each of said combined exit/entrance windows is at a different side of said beam splitter from each other and said light beam transmitter.

7. (Canceled).

8. (Currently Amended) A method for measuring alignment of machine tools, comprising:

sending a first beam from a first transmitter/receiver located on a first machine tool to a second transmitter/receiver located on a second machine tool and to a target on the first machine tool;

sending a second beam from said second transmitter/receiver to said first transmitter/receiver and to a target on the second machine tool;

sending a third beam from a third transmitter/receiver to said second transmitter/receiver and to a target on the third machine tool;

obtaining deviations of impact points of said first, [and] second and third beams from [a] the target located in each of the first, [and] second and third transmitter receivers; and

using the deviations obtained for determining an offset of spindles of the machine

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tools.

9. (New) Device as claimed in claim 6, wherein the first and second exit/entrance windows are located at sides of the housing which are at right angles relative to each other.